

Notice of Allowability

Application No.

09/533,148

Examiner

Yasin M. Barqadle

Applicant(s)

LIN, EDDIE HUEY CHIUN

Art Unit

2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/22/2005.
2. ☒ The allowed claim(s) is/are 1,3-8,10-14 and 16-25.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Dong C. Dinh
Primary Examiner

Examiner's Amendment

1. An examiner's amendment to the record is attached. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Anthony J. Lombardi (Reg. 53,232) On November 10, 2005.

3. In the claims:

- Please amend claims 1,7,8,14,20,22 and 24 as attached.
- Please cancel claims 2,9, and 15.

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are

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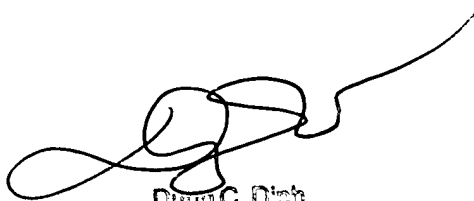
unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR system. Status information for unpublished applications is available through private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YB

Art Unit 2153



Dung C. Dinh
Primary Examiner

1. (Currently Amended) A method for analyzing a data network having a plurality of routers comprising:

accessing at least one of a static routing information table and a route summarization information table;

determining if a particular network prefix is included in the ~~accessed information~~ static routing table or the route summarization table;

setting an identity of the network device to an identity in the static routing table or the route summarization table that corresponds to the network prefix if it is determined that the network prefix is included in the static routing table or the route summarization table;

determining an identity of ~~[[a]]~~ the network device based on ~~an identity included in the accessed information corresponding to the network prefix~~ corresponding to the set identity; and

analyzing the data network using the determined identity.

2. (Canceled)

3. (Original) The method of claim 1 wherein the determining includes:
determining router information, interface information, and association information for the network prefix.

4. (Original) The method of claim 1 wherein the analyzing includes:
analyzing traffic of the data network.
5. (Original) The method of claim 1 wherein the analyzing includes:
modeling the data network.
6. (Original) The method of claim 1 wherein the determining includes:
determining an identity of an exit or entry router in the data network.
7. (Currently Amended) A system for analyzing a data network having a plurality of routers, said system comprising:
 - means for accessing at least one of a static routing information table and a route summarization information table;
 - means for determining if a particular network prefix is included in the ~~accessed information~~ static routing table or the route summarization table;
 - means for setting an identity of the network device to an identity in the static routing table or the route summarization table that corresponds to the network prefix if it is determined that the network prefix is included in the static routing table or the route summarization table;
 - means for determining an identity of ~~[[a]] the~~ network device based on an ~~identity included in the accessed information corresponding to the network prefix~~ corresponding to the set identity; and

means for analyzing the data network using the determined identity.

8. (Currently Amended) A system for analyzing a data network, said system comprising:

a memory configured to store information representing a static routing information table and a route summarization information table; and

a processor configured to:

access at least one of the static routing information table and the route summarization information table;

determine if a particular ~~network~~ network prefix is included in the ~~accessed information~~ static routing table or the route summarization table;

set an identity of the network device to an identity in the static routing table or the route summarization table that corresponds to the network prefix if it is determined that the network prefix is included in the static routing table or the route summarization table;

determine an identity of ~~[[a]]~~ the network device based on an ~~identity included in the accessed information corresponding to the network prefix corresponding to the set identity~~; and

analyze the data network using the determined identity.

9. (Canceled)

10. (Original) The system of claim 8 wherein, when determining, the processor is configured to:

determine router information, interface information, and association information for the network prefix.

11. (Original) The system of claim 8 wherein, when analyzing, the processor is configured to:

analyze traffic of the data network using the determined identity.

12. (Original) The system of claim 8 wherein, when analyzing, the processor is configured to:

model the data network using the determined identity.

13. (Original) The system of claim 8 wherein, when determining, the processor is configured to:

determine an identity of an exit or entry router in the data network.

14. (Currently Amended) A computer-readable medium containing instructions for controlling at least one processor to perform a method that analyzes a data network having a plurality of routers, the method comprising:

accessing at least one of a static routing information table and a route summarization information table from a router;

determining if a particular network prefix is included in the ~~accessed information~~
static routing table or the route summarization table;

setting an identity of the network device to an identity in the static routing table or
the route summarization table that corresponds to the network prefix if it is determined
that the network prefix is included in the static routing table or the route summarization
table;

determining an identity of ~~[[a]]~~ the network device based on ~~an identity included~~
~~in the accessed information corresponding to the network prefix~~ corresponding to the
set identity; and

analyzing the data network using the determined identity.

15. (Canceled)

16. (Original) The computer-readable medium of claim 14 wherein the
determining includes:

determining router information, interface information, and association information
for the network prefix.

17. (Original) The computer-readable medium of claim 14 wherein the
analyzing includes:

analyzing traffic of the data network.

18. (Original) The computer-readable medium of claim 14 wherein the analyzing includes:

modeling the data network.

19. (Original) The computer-readable medium of claim 14 wherein the determining includes:

determining an identity of an exit or entry router in the data network.

20. (Currently Amended) A method for determining an identity of a network device, the network device being associated with a network prefix, the method comprising:

accessing one or more of a border gateway protocol peering table, a static route table, an open shortest path first route summarization table, and a network topology table;

determining whether one or more of the accessed tables contains the network prefix; [[and]]

setting an identity of the network device to an identity in one or more of the accessed tables that corresponds to the network prefix if it is determined that the network prefix is included in one or more of the accessed tables; and

determining [[an]] the identity of the network device ~~using the accessed tables~~
~~when at least one of the accessed tables is determined to contain~~ based on the network prefix corresponding to the set identity.

21. (Original) The method of claim 20 wherein the determining an identity includes:

determining router information, interface information, and association information.

22. (Currently Amended) A system for determining an identity of a network device, the network device being associated with a network prefix, the system comprising:

a memory configured to store one or more of a border gateway protocol peering table, a static route table, an open shortest path first route summarization table, and a network topology table; and

a processor configured to:

access, from the memory, one or more of the border gateway protocol peering table, the static route table, the open shortest path first route summarization table, and the network topology table;

determine whether one of the accessed tables contains the network prefix;

[[and]]

set an identity of the network device to an identity in one or more of the accessed tables that corresponds to the network prefix if it is determined that the network prefix is included in one or more of the accessed tables; and

determine ~~[[an]]~~ the identity of the network device ~~using the accessed tables when at least one of the accessed tables is determined to contain~~ based on the network prefix corresponding to the set identity.

23. (Original) The system of claim 22 wherein, when determining an identity, the processor is configured to:

determine router information, interface information, and association information.

24. (Currently Amended) A computer-readable medium containing instructions for controlling at least one processor to perform a method that determines an identity of a network device, the network device being associated with a network prefix, the method comprising:

accessing, from a router, one or more of a border gateway protocol peering table, a static route table, an open shortest path first route summarization table, and a network topology table;

determining whether one of the accessed tables contains the network prefix;

[[and]]

setting an identity of the network device to an identity in one or more of the accessed tables that corresponds to the network prefix if it is determined that the network prefix is included in one or more of the accessed tables; and

determining [[an]] the identity of the network device ~~using the accessed tables when at least one of the accessed tables is determined to contain~~ based on the network prefix corresponding to the set identity.

25. (Original) The computer-readable medium of claim 24 wherein the determining an identity includes:

determining router information, interface information, and association information.